

AMENDMENTS TO THE CLAIMS

Please cancel Claims 1-13.

Please add the following new Claims:

14. (New) A channel type switching method for a multimedia broadcast and multicast service (MBMS) point to point (P-t-P) and point to multi point (P-t-M) channel, when a UE having MBMS service moves to a cell in a destination radio network controller (DRNC) that has an Iur interface with a serving radio network controller (SRNC), comprising the steps of:

determining in the DRNC, to perform switching channel type between a common channel and a dedicated channel based on a number of users having the MBMS service in the cell;

notifying the SRNC of the determined MBMS channel type from the DRNC; and

transmitting MBMS data with the determined channel type to UEs requiring MBMS service.

15. (New) The method as set forth in claim 14, wherein said channel switching is at least determined based on comparing a number of UEs requiring MBMS service to a threshold.

16. (New) The method as set forth in claim 14, wherein said channel switching further comprises:

the SRNC transmitting a radio link setup request message to the DRNC including at least one MBMS service identifier.

17. (New) The method as set forth in claim 14, wherein said channel switching further comprises:

sending, by the SRNC, a message to the DRNC to request a radio link setup;

determining, by the DRNC, a channel type at least based on a number of UEs that require MBMS service and informing the SRNC of the channel type; and

notifying the UE to reconfigure an MBMS channel.

18. (New) The method as set forth in claim 14, wherein said channel switching further comprises:

the SRNC sending a message to inquire about MBMS service type from the DRNC;

the DRNC determining a channel type to be set up and informing the SRNC of the parameters of MBMS channel set up;

the SRNC completing setting up a dedicated channel or obtaining common channel information from the DRNC; and

the SRNC notifying a UE to reconfigure an MBMS channel via a radio resource control (RRC) message to complete channel switching.

19. (New) The method as set forth in claim 16, wherein said message transferred from the SRNC to the DRNC comprises an MBMS service identifier, which enables the DRNC to count a number of MBMS users.

20. (New) The method as set forth in claim 16, wherein, if the UE is first in requesting MBMS service in the DRNC, the DRNC sets up a radio access bearer (RAB) connection with a core network.

21. (New) A channel type switching method for a multimedia broadcast and multicast service (MBMS) point to point (P-t-P) and point to multi point (P-t-M) channel in a radio network controller, comprising:

checking a number of UEs in a cell to determine an MBMS channel type;

determining the MBMS channel type by comparing the number of UEs that require MBMS service to a threshold; and

reporting change of the MBMS channel type to a serving radio network controller (SRNC).

22. (New) The method as set forth in claim 21, further comprising:

receiving, at the SRNC, the MBMS channel type from a destination radio network controller (DRNC); and

transmitting a channel reconfiguration request message to the UE.

23. (New) A channel type switching method for a multimedia broadcast and multicast service (MBMS) point to point (P-t-P) and point to multi point (P-t-M) channel, comprising the steps of:

transmitting, from a serving radio network controller (SRNC), a radio link setup message to a destination radio network controller (DRNC);

transmitting, upon receiving the radio link setup message in the DRNC, an MBMS channel type to the SRNC;

notifying, at the SRNC, a UE that requires MBMS service to reconfigure the MBMS channel type via a radio resource control (RRC) message;

receiving, at the UE, the MBMS channel type; and

receiving MBMS data on an MBMS channel using the MBMS channel type, wherein the MBMS channel type is one of a dedicated channel or a common channel which is received by a plurality of UEs.

24. (New) The method as set forth in claim 23, wherein the radio link setup message comprises an MBMS service identifier.

25. (New) A data communication channel establishment method for setting up multimedia broadcast/multicast service (MBMS) with a core network (CN) via a destination radio network controller (DRNC), when a UE moves to a cell controlled by the DRNC, comprising the steps of:

a serving radio network controller (SRNC) sending a message to the DRNC;

the DRNC sending an MBMS service request message to the CN;

the CN requesting to set up a data connection with the DRNC; and

the DRNC sending a response message to the CN.

26. (New) The method as set forth in claim 25, wherein the step of the SRNC sending messages to the DRNC comprises sending a MBMS service identifier.